



The

GARzette

The Official Newsletter of the Gwinnett Amateur Radio Society
December 2014 <http://www.gars.org/> Volume 23, Issue 12



Happy Holidays Everyone!



The ideal Christmas gift
for any ham
(or for his xyl!)

Season's Greetings
from the people
who make the
DRAKE 2-B RECEIVER
R. L. DRAKE COMPANY
Miamisburg, Ohio

W8CWE	"Bob" Drake
W8NGU	"Piff" Smith
K8INM	"Bill" Drayer
K8RZI	"Fran" Porter
KN8CPT	"Ken" Porter
W8VST	"Vic" Blackwell
KN8VHO	Mary Townsend
K8YDO	"Milt" Sullivan
W8NUQ	"Jim" Waits
KN8UIO	"Pete" Drake
K8HYD	"Jim" Kittel
KN8ZZL	"Herb" Meyer



From the 1960's

Message from the President

On this last note for the year 2014 I want to personally thank all of you who have made the Gwinnett Amateur Radio Society a smashing success for the year. This has been the busiest year that I have encountered in my association with GARS and I think one of the busiest for GARS ever. As the Dayton Hamvention Club of the Year winner I think we have lived up to our credits. I cannot possibly mention everyone by name and call without missing someone but you know who you are. As we approach the 300 mark in membership many more have stepped up to assist the club and I hope many more will consider volunteering for our upcoming projects in 2015.

I also want to thank all of you who have supported me in my first year as president. I have never considered myself a politician and certainly not a public speaker but my audience has made the job easy. Again, thanks to all who have supported me and made me look good by providing the background work that is required to make an organization of this stature great.

Looking forward to this coming year we have a lot of work and fun ahead of us. Starting right off is **TechFest on January 10th**. I hope all of you are planning on attending. GARS has achieved regional and some national fame and publicity for this event. Many of the regional amateur radio clubs and organizations will be involved and it is a great time to find out what the rest of the community is up to and share information. The forums will be great and oh that raffle prize! **An Icom 7100... sweet!!** And of course it wouldn't be an official ham radio gathering if there weren't plenty of good food to go around. And, except for the raffle tickets, all free to the public. Hope to see you there.

I will get on my usual soap box here and remind everyone to please volunteer and participate in our upcoming events. We are always looking for active members to step up and help. The more that do so, the easier the job. Don't be afraid to jump in. Even though it might appear to be a lot of work, participa-



"This has been the busiest year that I have encountered in my association with GARS and I think one of the busiest for GARS ever."

tion in our group's endeavors is very rewarding. Also, never hesitate to put in your 2 cents worth on what you think the organization should or could be doing. If you would like to make a formal proposal please contact an officer or committee chairman about doing so at the executive meeting held one week before the regular meeting. If you would rather do it privately then drop myself or any of the officers an email and we will be happy to talk to you.

Thanks again for making 2014 the greatest year yet for GARS. I'm looking forward to working with all of you to make 2015 even better.

Thanks and 73s,

Rick, N4XYY

"It is not the class of license the Amateur holds, but the Class of the Amateur that holds the license."

[Author Unknown]

Merry Christmas



GARS December Meeting

"2014 GARS Christmas Party"

Friday December 5, 2014

6:30 pm

This meeting takes the place of the regular monthly meeting. Open to all members, however, if you are not eating you may want to come after we get through the buffet line.

**Sports Aviation Complex - Hangar 1
690 Airport Road
Lawrenceville, GA 30045**

[Directions](#)

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GARS Communications

2 Meter Repeater
147.075(+) MHz
82.5 PL Tone

APRS
144.390 -- 1200 Baud
W4GR

D-Star
WD4STR
145.060 + (1.4 MHz)
440.550 + (5 MHz)

Main Repeater Site
Oak Street,
Lawrenceville

2 Meter Repeater
147.255(+) MHz
107.2 PL Tone

6 Meter Repeater
53.110 (-1 MHz)
No PL tone

70 Cm Repeaters
444.525(+) MHz
82.5 PL Tone
442.100(+) MHz
100 PL Tone

Backup Repeater Site
Lanier Mountain,
Snellville

**Don't forget
to support our
advertisers at the
back of the GARzette.**

The *GARzette* is the official monthly newsletter of the Gwinnett Amateur Radio Society, serving its members and other persons interested in the advancement of the Amateur Radio art.

Original articles, art, and photos are invited and encouraged. Previously copyrighted submissions cannot be accepted for reprinting unless permission from the appropriate publisher is provided in writing along with the information being submitted. If reprints are from publications allowing their unrestricted use, please include a copy of the printed permission contained in the publication.

If possible, bring your articles to the monthly meeting in Microsoft Word or rich text (.rtf) or text or HTML format or by email to n4gyn@arrl.net. Artwork can be accepted in most any graphics format and can be submitted via email to the same address. Alternate means of submittal can be arranged when necessary.

In keeping with the Amateur Radio spirit, permission is hereby granted for the reproduction of The *GARzette* articles by other Amateur Radio club newsletters provided that proper credit is given to the individual author and *The GARzette*.

The GARzette is published each month with the assistance of Norm Schklar, WA4ZXV who prints copies for distribution at meetings, etc. and Dave Bruse, W4DTR, who distributes the news letter electronically.

Deadline for submissions is the 28th of each month for inclusion in the following month's issue.

For additional information view our Website at: <http://www.gars.org>

Newsletter Editor: Ray Bailey—N4GYN
770-689-6620 or editor@gars.org



Coming Soon

December:

Annual Gwinnett Amateur Radio Society Christmas Party

Dec 5th 6:30 pm

Great Food! Great Fun! Great Prizes! Special Recognitions!

January 2015:

Sounds In Your Shack The Ins and Outs Of Audio By Rick Cobb, N4XYY

January 2015

TechFest

Presentation / Demonstration Registration is open!

TechFest is January 10, 2015

Look for updates under the activities tab of the GARS web site.
There is no fee for setting up a demonstration.

We will reserve one table unless we hear otherwise.

For more information please send an email to techfest@gars.org

Please complete this form if you wish to participate in TechFest. ([form](#))

Thank you for your help in making this a great TechFest for 2015.



We're excited about TechFest 2015!

Where: Gwinnett Medical Resource Center, 665 Duluth Highway (GA120), Lawrenceville, GA 30046

Purchase Raffle Tickets on-line. You do not need to be present to win.

Chili galore. We'll have our annual **GARS Chili Cook-Off.**

http://www.gars.org/w4gr/index.php?option=com_content&view=article&id=149:2015-techfest&catid=2:activities&Itemid=326

GARS 2013 Christmas Party in Review



HRO Manufacturers Day



And the proud winner is.... our very own Chuck McCord KK4TKJ. Congratulations Chuck!



Identifying Noise On Your Radio

A friend of mine wrote to me recently asking the following question:

Hi Ray,

I've been having some strange noise problems here, seems to be 15 meters only, about 21.0 up to 21.09. It sounds like a 60 Hz buzz, but fades in and out a little bit. It's about S7 on the meter. I have not been able to locate the source yet; I'll try more tomorrow, but I thought I'd ask if this type of noise sounds familiar to you. I don't hear it on the AM or FM commercial radio bands.

--Ed--

He and I both know about shutting off all the power in your house and then turning on one breaker at a time until the noise re-appears, but sometimes it's not that simple. This prompted me to do some research and I came up with several sources, but this one seems like one of the best.

<http://randombio.com/interference.html>

Here is a small sample of the page I found:

Ray, N4GYN

Identifying Sources of Radio Frequency Interference Around the Home

Most people associate radio frequency interference (RFI) with electricity that is arcing through the air, as when a power connector is corroded or has become loose. But in recent years, many consumer devices have become widely available that contain circuits that are intrinsically noisy. These devices contain Class D amplifiers and power supplies that use silicon controlled rectifiers (SCRs). Digital circuits in computers and computer networking equipment are also intrinsically noisy, because of the rapid acceleration and deceleration of electrons at high processing speeds.

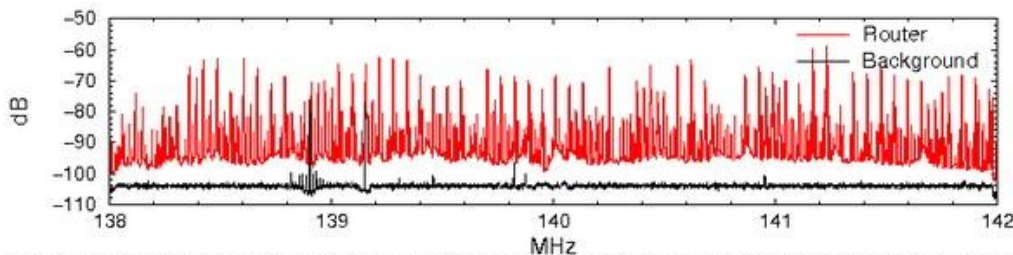
This page describes the results of some tests with a portable spectrum analyzer in my attempts to identify the sources of RFI around the house. Radio interference was found in a number of unexpected places. Each type of interference has a characteristic signature that can aid in finding the source. In some cases, the RFI can be easily eliminated. In others, the only sure way to eliminate the interference is with the repeated application of small-arms fire.

Eliminating RF interference is not just something you do for fun. Static on the radio could be a sign of faulty electrical wiring. Fixing it could save your life.

Computer networks

The biggest source of interference was from the computer network which, in this case, consists of a small number of PCs connected through a network switch with Cat 5e cable. The computer network produced a comb of carriers spaced about 30.5 kHz apart that made reception difficult above 17 MHz (see figure below). This RFI was a problem only when a computer was plugged into a network hub or switch. Clamping large ferrites over the network cables and the switch's power cable had little effect. Changing to a D-Link DGS-1016D network switch, which is in a metal box instead of the plastic case used by the previous hub and switch, reduced the RFI from S7 to S3 (where background noise was S2) on some frequencies. However, other frequencies still had RFI at S6-S7. The RFI was reduced from S7 to nearly undetectable levels when the Cat 5e cable was replaced with shielded Cat 5e cable.

On a radio, this interference just sounds like an unmodulated carrier. There is no buzzing sound, but often a faint whine or hum.



The above figure shows the interference from the network switch in the VHF region. In this example, the antenna was positioned in close proximity to the switch. The amplitude of these spikes is actually fairly small, and a switch or hub by itself produces only a small amount of interference. However, unless shielded patch cables and wiring are used, the network cables act as an antenna and can broadcast this interference over a wide area, easily reaching 25-50 feet from the source.

This part of the spectrum is used by aircraft communicating with their control tower. If a passenger plugged a network cable into their laptop, it would radiate a comb of carriers like this, which could easily wipe out the plane's reception of ground control signals. No wonder the FAA bans computers on airplanes.

A TV show called *Mythbusters* once tested whether radio interference from a computer could cause a plane to crash. As usual, they tested the wrong thing and got the wrong result!

VCRs and DVD Players

Interference on upper HF was also produced by a Sony SLV-N900 VCR, and was present even when the VCR was turned off. It turned out that this VCR is supplied with no ferrites on the power cord. I cut the power cord (after unplugging it) and wrapped it several times through a large toroidal ferrite. This reduced the interference from the VCR from S8 to undetectable levels.

LIDS

Are you a lid? Good question. After reading this you can ask yourself—does this sound like me?

Note: All [] items are added or changed by GARzette editor.

Let us define what a LID is.

1. In earlier telegraphy days a LID was referred to a operator that used a Prince Albert can lid to hear the Telegraph sounder easier. Usually these operators were new and sometimes slow and would slow down the whole Telegraphy system because of the operator that was slow or making many mistakes.
2. A LID now of days is referring to any Ham operator that is a poor operator.
3. Defined by a friend of mine a LID is some one that does not change their ways even after being corrected.

Why should I care about LIDS?

1. Amateur Radio can be and will be received by Hams and non hams alike from local level to world level communications. If hams sound like a bunch of morons on the air without any type of social order , what type of impression do you think we give to non hams?
2. Why would some one want to have a bad label put upon them?
3. Not [wanting] to let the quality of the Hobby/Service go to the same route as C.B.; an FCC mistake.

Lets look at some of the common mistakes we see ALL across ham radio and in EVERY class level.

1. Saying out loud on voice when trying to be funny and say HI HI. Hmmm, why not just laugh? Would that not be much easier and sound a little more human like. Are you trying to impress someone that you know what HI HI means on CW? Is there really a need for it on phone?
2. Using "Q" Codes on phone..i.e. QSL, QRT, QSY ... Is there really a need for this on Phone why not just say to your friend "Hey, Jim change frequency to 146.675" Q codes were made for shorthand for CW and adopted on Digital modes for a efficient shorthand. Also a LID should always use Q codes when stations have a strong signal and clear and can speak your native tongue very well. [Tongue in cheek]
3. Using really snazzy phonetic I.D.'s ... Why not use the Primary or Secondary ITU Phonetics? Every one is expecting to hear certain words with certain letters, Does it make sense to use some off of the wall word like example KZ4ZPC Kangaroo Ziggi Four Ziggi Popcorn Candy. When the other operator especially in a bad conditions might think you want to eat some candy popcorn or something.
4. Use the wrong terminology like on FM say something like " Hey, Jim turn up your modulation(or even worse your Mod). Last time I looked FM Deviates not modulate. Also, using the wrong word for Class C type of amplifiers as : "linear" ,which they are not linear. Which lots of FM Amps are Class C and thus are not linear.
5. When giving your call sign always say after the call sign For ID , That is a little redundant don't you think?
6. When communicating with some one always give them dis-honest information. (Sarcastic here) Always tell someone that their audio is sounding very good, (when there audio is extremely basses and mushy or very distorted sounding over driving the transmitter). Tell someone they are full quieting into a repeater when there is a HISS in the back-ground. Always tell someone they are 59 or 599 depending on mode and then ask them to repeat what they said. Or even better you are 599 with deep QSB hmmm, would that not be like hmmm 499 or 399 or something like that??
7. To be a good lid they must always tune up on the air and to make it even better they must choose the frequency that the DX station is using and key up on top of him, while other stations are trying to work the DX station.
8. Always call for the DX station even when you can not hear them. Example the DX station is saying something to the effect "DE BP4RR UP 2" The LID must then never put the radio into spilt mode to work the DX station because he can NOT HEAR them saying UP 2! And should be calling for him on his calling frequency while the DX station is keyed up as well!
9. Always work a DX station and then at the same time give your signal report and name etc... before the DX station even told you to go ahead, that would be like me going to the bank and jump the line and tell the teller I am here for you to serve *my* needs. Why not just give your call sign out and wait for the DX station to tell you to go ahead.
10. Always continue to throw out your call sign even though the DX station is working another station at that time period.
11. Always speak in third person .i.e. "We are sitting here talking on the radio" [or] "We are clear".
12. Use words that do not make any sense or do not even exist. like "negitory" [or] "destinated".
13. Always sign onto a repeater with your call sign and that is all, When someone hears a call sign they have NO clue

(Continued on page 9)

LIDS (cont'd)

(Continued from page 8)

what you are doing. Are you listening? Are you clearing out? Are you ordering pizza or what???

14. When in a mobile or portable, never tell anyone you are mobile or portable, let them just guess at it especially when that is important information.

15. Never listen to a repeater before you key down on any frequency.

16. When using a repeater always use .. "Hey your signal sounds great over here nice and strong!!." Never mind that the repeater is probably on a high hill or tower etc and that it retransmits what it hears and the other station signal in lots of cases never comes to you directly.

17. Always use the word "there" a whole lot like 20 times in one key up. People listening might start wondering where in the heck is "there" at.

18. Always use the term 73s ,so you can make a plural statement even sound more plural 73 means "best regardS". Do you want to say "best regardses"??

19. Always try to use your "rubber ducky" on your nifty HT when you are many miles away from the repeater or not so good terrain especially on an every day circumstance , so everybody will always try to guess what you are talking about.

20. Always get way into the microphone and see how distorted your audio can get and also to listen to uvula dance around. And if someone tells [you] your audio is too loud or hot then just ignore them and the problem will magically disappear. Always make sure the mic gain is very high to make it sound like you are doing a wind tunnel test in your vehicle.

21. When going to simplex always choose the national call frequency to hold a conversation on.

22. In [a] general conversation always break into a conversation with a off of the wall comment or off the subject topic.

23. Always complain about how the repeater is not working well or how you are not receiving it well.

24. When a station tells you to stand by just continue to give your information to him ([have] seen that happen)

25. Always break into a conversation and say "May I call another Station...kz4zzz this is kz4fff" Not much of a choice there was it? Yea the repeater is a community type of resource , but why jump in between a conversation to do what you want to do. That would be like going to hardware store and see a person that works there helping a customer, do you walk up to [the] person working and demand them to help you? If you say this is normal then this is just right down RUDE!

26. When working a station and the other station says "Hey Jim my name is Charlie" a LID then should key up and say "Nice to meet you Andrew" Just because QRZ says his first name is Andrew , You know some people do have middle names or even have a shorter name like Bill for William etc...

27. When [you are a] LID always seek out stations that are Calling "CQ contest" or a rare DX station. Make sure you can work them and tell the other station that your name is such and such, you live on this street in this town and you are using such and such equipment and that you really enjoy Kenwood radios etc.. I think you get the point... For one thing that station does not really care too much [about] all the frivolous information. They are interested in quick contacts!

28. When signing out with another station that controls the frequency and the stations returns it back to the LID station for his final and the LID gives his farewells and 73 and then the other stations gives his 73. The LID stations must be compelled to key back up and say 73 again or something to that effect, even though the other station gave the green light for other stations to call him. And all the LID is doing is creating chaos.

29. When signing "portable" always use redundancy when signing in , like i.e. de xx4xxx/4 We already know you are in 4th call area why tell it twice? Proper way would be xx4xxx/m or xx4xxx/p or xx4xxx/mm etc. if outside the call area then use xx4xxx/5 which is no longer a rule, but is helpful for stations with beams and propagation [type] programs.

[Found at <http://ac4m.us/lid.html> and passed on by...]

Jeff Catchins -GARS MEDIA

AB4HF

www.HamsOnCams.com

B-17 Story by W8LWX

Oh, my. Oh my, oh my, oh my.

Ray, I can guarantee you, you did not send this [GARzette] previously. I would definitely remember having my heart jump the way it did, just now, when I opened the PDF and saw that plane.

If I'm not mistaken, it's the same B-17 that my dad (the first W8LWX) and I got to ride out of Lunken Field (in Cincinnati) in August 2001. See attached photos. The number on the tail is 2102516 anyway, so it's the same one unless there's more than one B-17 with that number on the tail.



I suppose I should have taken better notes, but I was just so happy to share this moment with my dad. I have photos of the plane, of my dad, and of my views from inside, but none of myself at the scene.



Many, many years earlier, my dad and I had gone to Oshkosh (1977, I think) and we missed an opportunity to ride in a B-29 because we couldn't decide whether we ought to spend that much money on it. By the time we decided to do it, the B-29 was all the way across the field, starting its engines to fly back home. We both kicked ourselves for years over our indecisiveness. So when I heard about a B-17 coming to Lunken in 2001, I didn't hesitate -- I immediately bought tickets for both of us. We always liked the B-17 better than the B-29 anyway. Best money I ever spent!

The B-17 had woven itself into our family history in two other ways. For one thing, my shortwave radio when I was a kid was a Belmont BC-348L that my dad had given me. I still have it and it still works. For another, my dad remembered that, when he was a kid, a B-17 flew into Grimes Field in Urbana, Ohio (about a mile from our house, which was also where he grew up), stayed briefly, then flew out. Not many people saw it, and most who heard the tale

insisted that there wasn't enough runway for a B-17 to get in and out there. It wasn't until much later that my dad got confirmation, after he started dating my mom and found out that the pilot had been her uncle Carl, sneaking in for a quick (unauthorized) visit with the family.

Nice issue of the GARzette, as always!

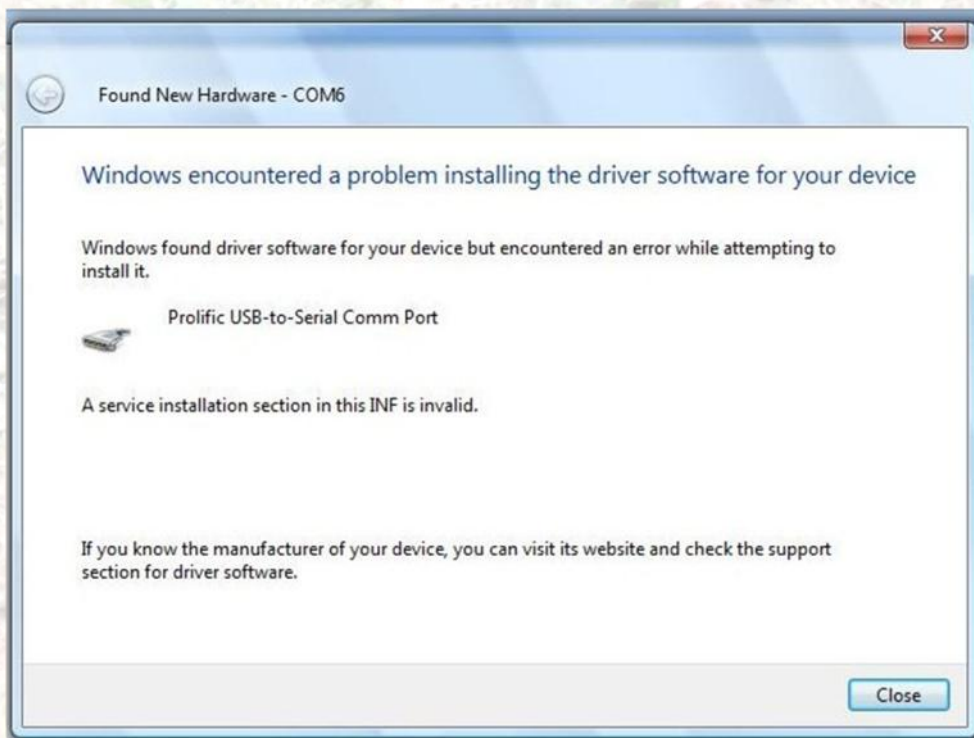
73, *John* W8LWX



Beginner's Corner

More on downloading the information to the Baofeng UV-5R (?) This is a continuation of last month's column. There is just so much information on the Baofeng radios that needs to be gotten out.

Try as I did, I could not get the CSV file I had created to my radio. I checked with a couple people in GARS. Phil, N4LNE, told me about this site: <http://dbjre.com/download.php>. I loaded the driver for my computer operating system, but the computer couldn't find it. I got one of those help windows on my computer directing me to the Prolific web site. Well, what do I have to lose? I downloaded their zip file, and checked the Read Me text file. This driver seems to cover all Windows versions except Windows 8. I downloaded the PL2303_Prolific_DriverInstaller_v1_9_0 file. I tried the Check Driver application. I get a window saying, "No PL2303 chip". Next, I downloaded the driver and got a successful installation window. Now I get a window that says that there is a problem that says "A service installation section in this INF is invalid." OK, they lost me. I know there are INF files in a computer, but I haven't a clue as to what they do.



At this time, I give up again. I tried the cable from my Kenwood HT. It fits the Baofeng exactly. My computer still doesn't want to talk to the Baofeng.

Phil also told me about this web site: <http://www.universal-radio.com/catalog/ht/0205prgm.html>

I downloaded this driver, and it was looking for Com 7. Also on the above URL, the [setup.1st](#) file cannot be found. I tried the setup.exe, and it aborted because it couldn't find the [setup.1st](#) file.

Having given up, I was watching a YouTube video and that lead me to these videos:

<https://www.youtube.com/watch?v=0mzY5vIH718>

<https://www.youtube.com/watch?v=arpGoThEtCE>

These should be required watching before you start to program your Baofeng. Also, when you go to YouTube, enter the following in the search field "baofeng uv-5r programming". There is a wealth of videos out there.

Thanks to Phil, N4LNE, my Baofeng is up and running with the frequencies I want.

73,

David Harden, KJ4CMY

GARS Membership Page

New GARS Members in November

Philip Abrams (KD4UYO)
Chet Dickenson (KM4FMO)
Stephanie Dickson ()
Wayne Holt (KM4FMR)
Jonathan Kirkland (KM4FMU)
Kenneth Larson (KJ4ZAS)
Gerold Martin (KM4FMV)
Audrey Mc Elroy (KM4BUN)
Steven Nafziger (KM4DRU)
Gillian Reid (KM4DEY)
Phil Smith (K4PWS)
Jackson Wiggs (KM4GBJ)

New Members: 12

**Total Members as of December 1, 2014
- 288-**

Join us for our weekly breakfast gathering at
7:30 AM most Saturdays at:

Golden Corral
2155 Riverside Parkway
Lawrenceville, GA 30043
([Directions](#))

The meeting this month is Friday
December 5, at 6:30



([Directions](#))



**The following members are
celebrating birthdays
in December:**

HAPPY BIRTHDAY!!
From All of Us at GARS

Philip Abrams (KD4UYO)
David Adcock (KA4KKF)
Richard Atkin (KJ4ZTY)
Steven Back (WB2OGY)
Joel Barrett (W4JOL)
Joseph Biddle (AD4PZ)
Andrew Campbell (KK4WEJ)
Shannon Case (KD4HLL)
Nicholas Doemland (AB4CQ)
Ryan Duncan (KI4CSM)
Gloria Gancarz (KK4SZD)
John Harmon (N4JCH)
Franklin Haynes (KV4SP)
Kenneth Larson (KJ4ZAS)
Jerome Lofton (WD4CWG)
Michel Matteau (N0DIM)
Charles McCord (KK4TKJ)
Earl Meggison (KC4CCE)
Linda Mison (KD6KJL)
Jack Perry (K6JLP)
Ralph Pickwick (KJ4CNC)
Norman Schklar (WA4ZXV)
Susan Swiderski (AF4FO)
Thomas Whalen (KE4UXW)
Amy Woodrick (KE4IKF)
Eriks Zusmanis (KI4TBC)

GARS MEMBERSHIP

Your current GARS membership status is shown in the monthly newsletter email towards the bottom .

To become a GARS member, or to renew your GARS membership, please visit our website—<http://www.gars.org>

To make changes to your GARS membership (moved, new email address, new phone number, etc.), please email the Membership Committee - membership@gars.org

You can **renew or update** your Amateur Radio license information with the FCC at their website for free
<http://wireless.fcc.gov/uls/index.htm?job=home>

To update your ARRL information, please visit their website - <http://www.arrl.org>

Membership Chairman: Karen Albritton, KI4HPP
Committee Members: Richard Atkin, KJ4ZTY.

Net Managers Corner

Hello again everyone, from N4LNE, GARS Net Manager.

GARS NEEDS YOUR HELP

GARS is a great Amateur Radio service club and we have the membership and awards to prove it. Our club is a very busy and active club and we use the Monday night net to get the information out to our members. We need weekly participation to make our net function and to keep them interesting. We have a very small group of very dedicated people that make the net happen each week but we need more help.

Out of over 286 members we have **only eight primary people** that run the net every Monday Night. In no particular order they are:

Norm - WA4ZXV	Mitch - N0DIM
Hal - W4IGE	Don - KK4VLO
Ray - N4GYN	
Sandy - KJ4DRO	
John - WB4QDX	
Bill - KK4AUA	

I need 40 people to fill NCS and ANCS positions. The schedule is planned and posted months in advance and is flexible. If your plans change we can and do make adjustments to make it work, and I make those changes happen as soon as I am notified of a problem. I also send out reminders each week to let you know you are scheduled for the next Monday night net. In short we make it simple. All you need to do is show up, read the script, take a few notes and forward the information to me for record keeping.

Please lend a hand and contact me at the monthly GARS meeting or by sending me a message via the [Mentors & Elmers](#) page on the web site at www.gars.org. Signup to help support the effort that makes GARS the great club that it is.

73' See you on the Nets!

Phil McCleary, N4LNE

Net Manager



**Don't miss the "KNOW IT ALL" Net
Wednesday nights, 8:30-9:30 pm**



We have moved to a new format. We begin with current events and announcements. Then we Introduce New Technology. Then we have check-ins and general discussion. Post net is Rag Chew format.

Jeff—AB4HF

Everyone is having great fun on this net! Come join us and become a "KNOW IT ALL".

**TIME: 8:30 every Wednesday evening on the GARS repeater - 2m 147.075 +, PL 82.5
6m 53.110 - No Tone
70cm 442.100 + PL 100.0**

ARRL CONTESTING INFO

(All names of contests are Links in .pdf version)

DECEMBER

- 5-7 [160 Meter](#)
6-7 [EME - 50 to 1296 MHz](#)
13-14 [10 Meter](#)
21 [Rookie Roundup-CW](#)



JANUARY

- 1 *Straight Key Night:* 0000 UTC - 2359 UTC January 1
3-4 *RTTY Roundup:* First full weekend of January, but never on January 1, 1800 UTC Saturday through 2359 UTC Sunday.
24-25 *January VHF Sweepstakes:* The third or fourth weekend in January. See the [current rules](#) for this year's exact date. 1900 UTC Saturday through 0359 UTC Monday.

FEBRUARY

- 21-22 *International DX Contest - CW:* Third full weekend in February, 0000 UTC Saturday through 2359 UTC Sunday.

DECEMBER

.....160 Meter

Objective: For Amateurs worldwide to exchange information with W/VE amateurs on 160-meter CW. DX-to-DX QSOs do not count for contest credit. Stations located in overseas and non-contiguous U.S. Territories may be worked by DX stations. This includes Alaska KL7, the Caribbean US possessions KP1-KP5, and all of the Pacific Ocean territories KH0-KH9, including Hawaii KH6. These stations can work BOTH domestic stations (US and VE) as well as DX stations around the world.

.....EME—50 to 1296 MHz

Objective: To work as many amateur stations as possible via the earth-moon-earth path on any authorized amateur frequency above 50 MHz.

.....10 Meter

Objective: For Amateurs worldwide to exchange QSO information with as many stations as possible on the 10 meter band.

.....Rookie Roundup-CW

Mission: To encourage newly-licensed operators ("Rookies") in North America (including territories and possessions) to operate on the HF bands and experience competitive Amateur Radio operating. Experienced operators ("Non-Rookies") are strongly encouraged to participate and help new operators – either on the air or in person.

Objective: Rookies exchange information with as many other stations as possible on the 80, 40, 20, 15, and 10 meter HF bands. Rookie entrants are encouraged to read "[HF Contesting – Good Practices, Interpretations and Suggestions.](#)"

HAMFEST CALENDAR

Southeast US

01/03/2015 | [Freezefest](#)

Location: Locust Fork, AL
Type: ARRL Hamfest
Sponsor: Blount County Amateur Radio Club
Website: <http://www.freezefest.com>

01/10/2015 | [Techfest 2015](#)

Location: Lawrenceville, GA
Type: ARRL Convention
Sponsor: Gwinnett Amateur Radio Society
Website: <http://www.gars.org>

01/10/2015 | [Greenwood Hamfest](#)

Location: Greenwood, SC
Type: ARRL Hamfest
Sponsor: Greenwood Amateur Radio Society
Website: <http://w4gwd.org>

01/10/2015 | [FirstFest](#)

Location: Winston-Salem, NC
Type: ARRL Hamfest
Sponsor: Forsyth Amateur Radio Club
Website: <http://www.w4nc.com/>

02/07/2015 | [South Carolina State Convention \(Charleston Hamfest\)](#)

Location: North Charleston, SC
Type: ARRL Convention
Sponsor: Charleston Amateur Radio Society
Website: <http://www.wa4usn.org>

05/02/2015 | [Blue Ridge ARS's 56th Annual Hamfest](#)

Location: Spartanburg, SC
Type: ARRL Hamfest
Sponsor: Blue Ridge Amateur Radio Society
Website: <http://brars.org>

BSA Venture Crew 73 Wants You!

IF YOU are between 14 and 21 years old, enjoy outdoor activities, and have an interest in radio technology, **Venture Crew 73 is for you.**

- Venture Crews are part of the Boy Scouts of America.
- *Venture crew 73 is chartered by the Gwinnett Amateur Radio Society.*
- Venture crew 73 is coed.
- *Meetings are on the second Tuesday of the month, 7:00 pm, at EAA 690 Hangar at:
Briscoe Field - Sports Aviation Complex
Hangar 1, 690 Airport Road
Lawrenceville, GA 30045*
- Crew 73 is a youth-run organization, which means that our Crew President and other youth plan the Crew's outings and activities each month.

We enjoy:

- ◊ *Camping*
- ◊ *Hiking*
- ◊ *Horseback Riding*
- ◊ *Shooting Sports*

- Crew activities usually mix high adventure and the use of Amateur Radio.
- For more information, attend our next meeting or contact:

Steve Back, WB2OGY

Venture Crew 73 Committee Chairman

Phone: 770-712-9069

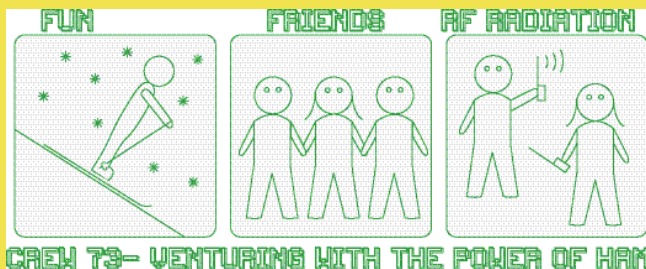
Email: committeechair@venturecrew73.org

Jeff Lee, AF4JL


















Venture Crew 73 Advisor

Phone: 678-475-3165




Email: advisor@venturecrew73.org



G A R S Officers and Committee Chairs

Rick Cobb, President	N4XYX	
Mike Weathers, Vice President	ND4V	
Allison Lynch, Secretary	KZ3JFY	
Sid Weaver, Treasurer	N4NQ	
Mike Smith, Program Manager	KK4KHS	
Karen Albritton Membership Chairman	KI4HPP	
Dave Bruse, Ham Exam Team Leader	W4DTR	
David Adcock, Webmaster, Field Day Chairman	KA4KKF	
Dorothy Jubon, Public Information Officer	N2DLJ	
Ralph Pickwick TechFest Chair, Apparel Mgr	KJ4CNC	
Ray Bailey, GARzette Editor	N4GYN	
Jeff Cutchins Multimedia Chairman	AB4HF	
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Eddie Foust, Repeater Chairman	WD4JEM	
Mike Weathers, WAS-Checker, Historian	ND4V	
Phil McCleary, Net Manager, ELMER Chair	N4LNE	
Mike Swiderski, Technical Advisor	K4HBI	

DIRECTORS

Kyle Albritton	W4KDA	
David Adcock	KA4KKF	
Norm Schklar	WA4ZXV	

2015 GA State ARES Meeting Promotional Materials (Same document three formats)

[http://adatab.net/
GA/2015_GA_State_ARES_meeting.pptx](http://adatab.net/GA/2015_GA_State_ARES_meeting.pptx)

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Radio Propagation Tools

<http://dx.qsl.net/propagation/>

<http://www.stroobandt.com/propagation/en/index.html>

The image shows a screenshot of the 'On-Line HF Propagation Prediction' website. It features a header with the title and a sub-header 'Serge Stroobandt, ON4AA Copyright 2014, CC BY-NC-SA'. Below the header is a grid of icons and text boxes for various tools and alerts, including 'Space Weather Alerts', 'Geomagnetic Effects of Solar Wind (Particles)', 'Solar Cycle & Visible Sunspots (Extreme-UV)', 'Lightning Strikes: Cause QRN (EM Radiation)', 'HF Absorption due to Solar Flares (EM Radiation)', 'Real-Time HF Propagation Prediction', 'HF Propagation Tools', 'HF Propagation Tutorials', and a 'Home' button. The background of the interface is orange and yellow.

GARS Recurring Calendar

- ◆ Monthly club meeting is the 2nd Tuesday of the month at 7 pm EXCEPT in December, this year it is concurrent with our Holiday Party, Dec. 5 @ 6:30 pm.
- ◆ Every Monday at 8 pm: GARS Want, Swap, Sell, and Information Net on the GARS 2-meter repeater
- ◆ Every Wednesday at 8:30 pm: GARS Know It All Net on the GARS 2-meter repeater
- ◆ Every Saturday at 7:30 am: GARS Weekly Family Breakfast, Golden Corral Restaurant, Riverside Drive, Lawrenceville

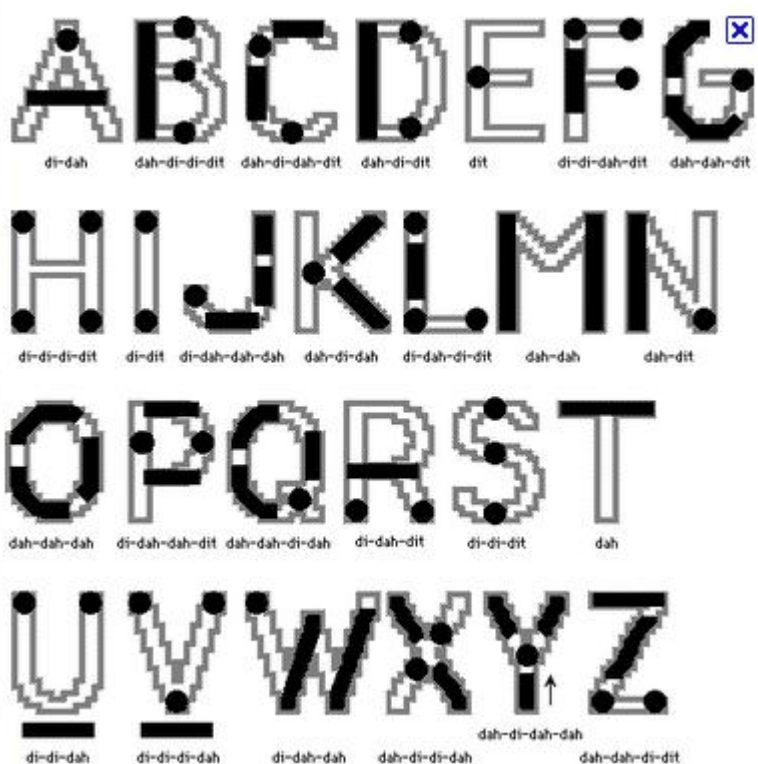
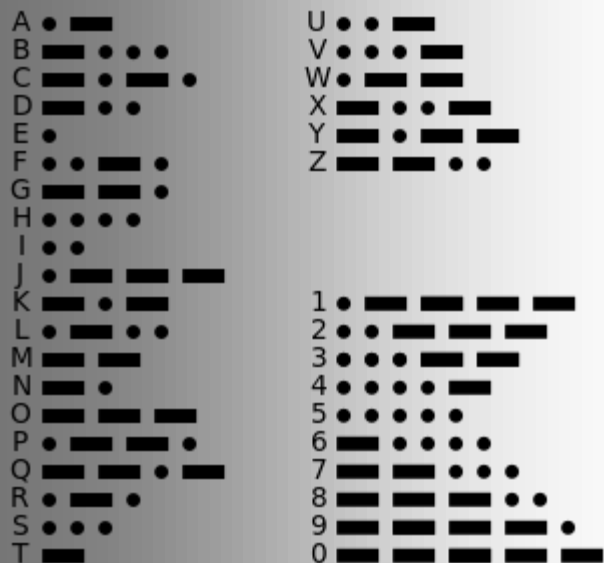
- ◆ Rick, N4XYY, brought the meeting to order at 7:00 p.m.
- ◆ Veterans in attendance were recognized.
- ◆ Introductions and first time visitors were acknowledged.
- ◆ Sid, N4NQ, gave the treasurer's report; there was a vote and the report was accepted.
- ◆ Karen, KI4HPP, gave the membership report: GARS has 293 members.
- ◆ Mike, KK4KHS, announced tonight's speaker and program.
- ◆ Please sign up for the Christmas party on the GARS website, or during tonight's meeting. The party is Friday, December 5th.
- ◆ The 57th Jamboree on the Air was a huge success. Steve, WB2OGY, thanked all who helped out.
- ◆ The recent HamCram resulted in twenty new hams!
- ◆ Hamfest went well – many GARS members came out and helped. There were 52 VE tests given during Hamfest.
- ◆ Ralph, KJ4CNC, announced that Techfest is coming up on January 10th. Volunteers will be needed. Raffle tickets can be purchased on the GARS website or during tonight's meeting. There is no fee to get into Techfest.
- ◆ David, KA4KKF, announced that the dog show will be at the end of February. Volunteers will be needed.
- ◆ Steve, N4TTY, thanked GARS members for helping at Hamfest.
- ◆ Certificates of appreciation were given out to Veterans in attendance.
- ◆ BREAK
- ◆ Carter Wood gave an excellent and informative program on "Armistice Day".
- ◆ Drawings were conducted and prizes awarded.
- ◆ There were 69 attendees.
- ◆ The meeting adjourned at 8:24 p.m.

Allison Lynch, KZ3JFY, Secretary

Have you tried Morse?

International Morse Code

1. The length of a dot is one unit.
2. A dash is three units.
3. The space between parts of the same letter is one unit.
4. The space between letters is three units.
5. The space between words is seven units.



GARS CALENDAR OF EVENTS FOR DECEMBER 2014

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3 8:30 pm - 9:30 pm GARS Know-It-All Net	4	5 GARS Christmas Party! 6:30 pm	6 7:30 am - 9:30 am Breakfast at Golden Corral Riverside Drive
7	8 8:00 pm - 8:30 pm GARS 2m Net	9 6:30 pm - 8:00 pm GARS Exec Meeting	10 8:30 pm - 9:30 pm GARS Know-It-All Net	11	12	13 7:30 am - 9:30 am Breakfast at Golden Corral Riverside Drive
14 GARS Ham Radio License Exam Session 2-5 PM See Calendar on GARS.org	15 8:00 pm - 8:30 pm GARS 2m Net	16	17 8:30 pm - 9:30 pm GARS Know-It-All Net	18	19	20 7:30 am - 9:30 am Breakfast at Golden Corral Riverside Drive
21	22 8:00 pm - 8:30 pm GARS 2m Net	23	24 Christmas Eve	25 CHRISTMAS 2014	26	27 7:30 am - 9:30 am Breakfast at Golden Corral Riverside Drive
28	29 8:00 pm - 8:30 pm GARS 2m Net	30	31			

Metro Testing Sessions

GARS publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at <http://www.arrl-ga.org>.

First Sunday, ODD Months

2 pm (Jan, Mar, May, Jul, Sep, & Nov)
VEC: WCARS
Braselton Public Utility Building
4986 Highway 53, Braselton, GA
Roger Gibson, WB4T
(770) 271-4210 or (770) 712-9560
w4rlg@bellsouth.net

First Sunday, EVEN Months

2 pm (Feb, Apr, Jun, Aug, Oct, Dec)
VEC: WCARS
Hall County EOC
470 Crescent Dr. Gainesville, Ga.
Perry Roper, KO4RD
(770) 536-3056

Second Saturday of Each Month

10:00 AM
Alpharetta North Park, Adult Activities Center
13450 Cogburn Rd, Alpharetta, GA 30004
Ian Kahn, KM4IK
E-mail: km4ik.ian@gmail.com

Second Saturday, ODD Months

VEC: ARRL
8:30 a.m.
GMC Community Ctr
5325 Leon St.
Stone Mountain, GA
Frank Haynes, KV4SP
(678) 467-3712

Second Sunday

VEC: W5YI
2 pm
Gwinnett County Fire Station #5
3001 Old Norcross Road
Duluth, GA 30096
Contact: Dave Bruse, W4DTR
Email: exams@gars.org

Third Saturday

VEC: W5YI
2 pm (Except December)
Lifeway Church
1654 Atlanta Highway #109
Steve Donellan, N5SMD
(404) 520-0368
Email: n5smd@comcast.net

(cont. next column)

Ham Exam Results

We had a very successful and pleasant test session on 9 November 2014.

**5 applicants tested
and 4 upgraded.**

- 3 New Technicians
- 1 Upgraded to General

Thanks to the following VE's.

- Mark Fehlig, WA6NGC (Co-CVE)
- Sid Weaver, N4NQ
- Don Bagby, KK4NJM
- Bill Cherepy, WB4WTN
- David Bruse, W4DTR, CVE
- Frank Haynes, KV4SP

Thanks & 73,

Mark Fehlig, WA6NGC

Email: exams@gars.org

GARS VE Website:

http://groups.yahoo.com/group/GARS_VE_Team/



Fourth Tuesday

ARRL VEC
7 pm @ United Way Service Center
6279 Fairburn Rd., Douglasville
Jessie Clower, KB4WFK
(770) 942-6466

Fourth Sunday

2:30 pm Georgia Tech
VanLeer Elec. Building
Rm. W218, 777 Atlantic Dr.
See www.w4aql.com
Alexander G. Carver
(404) 894-2936
acarver@ece.gatech.edu

Metro Club Meetings

First Tuesday

Kennehoochee ARC
Downtown Marietta
Fire Station #1, Training Room
112 Haynes Street
Marietta, Georgia 30060
Meeting begins at 7:00pm
Talk In 146.880(-)

First Thursday

Atlanta Radio Club
Georgia Red Cross HQ
1955 Monroe Dr., Atlanta
Meeting is at 7:30pm
Talk In -146.820(-)
N.E. Georgia ARC
Commerce Public Library
Meeting is at 6:30pm
Talk In - 147.225(+)
PL 123.0

Second Monday

Georgia Tech ARC
Room W218
Van Leer Electrical
Engineering Bldg.
Georgia Tech Campus
Meeting at 7:00pm

Second Thursday

Alford Memorial Radio Club
Annistown Road Baptist Church
Intersection of Annistown Rd &
Spain Rd
Stone Mountain
Dinner at 6:00pm
Meeting at 7:30pm
Talk In - 146.760(-)

Second Saturday

North GA QRP Club
Board Room of The
Shepherd Center at
2020 Peachtree Rd, NW, Atlanta
at 10:00 AM

Third Tuesday

North Fulton Amateur Radio League
Alpharetta Recreation & Parks Dept
Alpharetta Adult Activity Center
13450 Cogburn Road
Alpharetta, GA 30004
meeting at 7:30pm
Talk In - 145.47(-)
For more, go to: <http://www.gars.org/>

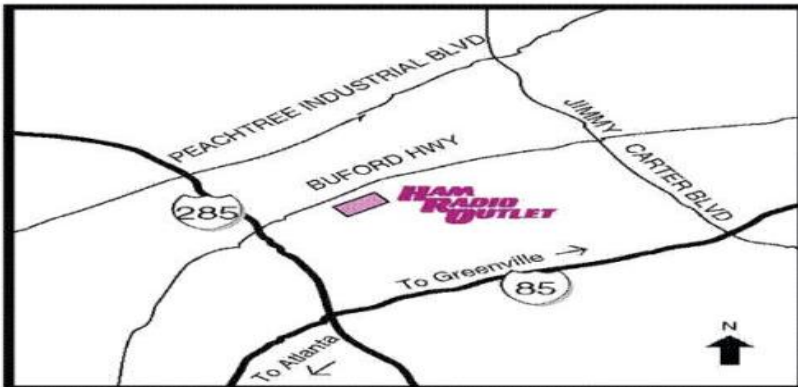
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GAMLS ID: 7299150
Oak Wind
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1 Half Bathrooms

Hot buy in great school cluster! Home has 47 foot tall Rohn 25G guyed tower, radio room in the basement is wired with two 240 VAC circuits for amplifiers and has an underground buried conduit for cables to the base of the tower. Rotator, mast, antennas, etc. on the tower are negotiable. Lots of square footage on full basement. 2 story foyer/hardwood floors. Kitchen remodeled 4 years ago with new stainless steel appliances including convection oven, granite counters, stained cabinets, custom tile backsplash. Large breakfast area, dining room, separate living room, family room w/gas fireplace. 3 finished rooms in basement as well as huge workshop/storage area. Ham radio tower will be removed by seller prior to close. Great location near Kroger, 5 minutes to Mall of GA.

View this property at: <http://7299150.GeorgiaMLS.com>

Bill Gambrell
COLDWELL BANKER RESIDENTIAL BR
Phone: 678-458-3494
Office: 770-623-1900
E-mail: bill.gambrell@coldwellbankeratlanta.com



Information is provided courtesy of COLDWELL BANKER RESIDENTIAL BR, and is deemed reliable but not

GAMLS ID: 7299150

Oak Wind

2,603 sqft.

4 Bedrooms

2 Full Bathrooms

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For more information, contact:

James A Worsham, Jr

E-mail: w4kxy@bellsouth.net



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Early Ham Radio operator using a Westinghouse RA/DA receiver, Oak Lane, PA, 1923.

ExplorePAHistory.com - Image